ISO 42001 Annex C Assessment: 10-Step **Process and Deliverables**

Overview ISO 42001 Annex C provides **informative guidance** on AI-related organizational objectives and risk sources to support AI risk management and impact assessments. While Annex C doesn't prescribe a specific assessment methodology, it serves as a foundation for establishing comprehensive AI governance frameworks. ## 10-Step Assessment Process ### Step 1: Establish Assessment Scope and Context **Objective: ** Define the boundaries and context for the AI risk assessment using Annex C guidance. **Activities:** - Define which AI systems and organizational units are included - Identify relevant stakeholders and interested parties - Establish assessment timeline and resources - Document internal and external context factors **Deliverables:** - Assessment scope statement - Stakeholder mapping document - Context analysis report ### Step 2: Review and Select Organizational Objectives **Objective: ** Identify relevant AI-related organizational objectives from Annex C quidance. **Activities:** - Review Annex C organizational objectives (e.g., accountability, fairness, explainability, security) - Select objectives applicable to your AI systems and organizational context - Customize objectives to align with business strategy - Define measurable success criteria for each objective **Deliverables:** - Selected organizational objectives matrix - Customized objective definitions - Success criteria documentation ### Step 3: Identify and Catalog Risk Sources **Objective: ** Systematically identify AI-related risk sources using Annex C framework.

- **Activities:**
- Review Annex C risk source categories
- Identify specific risk sources relevant to your AI systems

- Categorize risks by impact area (technical, ethical, operational, legal)
- Document risk source descriptions and potential impacts
- **Deliverables:**
- Risk source inventory
- Risk categorization matrix
- Risk source impact analysis
- ### Step 4: Conduct AI System Inventory and Classification
 Objective: Document all AI systems and classify them according to
 risk levels and objectives.
- **Activities:**
- Inventory all AI systems within scope
- Classify systems by type, purpose, and criticality
- Map systems to relevant organizational objectives
- Assess system lifecycle stage and maturity
- **Deliverables:**
- AI system inventory
- System classification matrix
- Objective-to-system mapping document
- ### Step 5: Perform Risk Assessment
- **Objective: ** Evaluate risks against organizational objectives using identified risk sources.
- **Activities:**
- Assess likelihood and impact of identified risks
- Evaluate risks against each organizational objective
- Use risk matrices or scoring methodologies
- Consider cumulative and interdependent risks
- Document risk assessment rationale
- **Deliverables:**
- Risk assessment report
- Risk register with scoring
- Risk heat map/matrix
- Assessment methodology documentation
- ### Step 6: Conduct AI System Impact Assessment
 Objective: Assess broader impacts of AI systems on individuals,
 groups, and society.
- **Activities:**
- Evaluate impacts on different user groups and stakeholders
- Assess fairness, bias, and discrimination potential
- Consider environmental and societal impacts
- Analyze privacy and data protection implications
- Document impact assessment findings
- **Deliverables:**
- AI system impact assessment report

- Stakeholder impact analysis
- Bias and fairness evaluation
- Privacy impact assessment

Step 7: Gap Analysis Against Objectives

Objective: Identify gaps between current state and desired organizational objectives.

Activities:

- Compare current AI governance practices against selected objectives
- Identify control and process gaps
- Assess capability and resource gaps
- Prioritize gaps based on risk and business importance
- **Deliverables:**
- Gap analysis report
- Control gap matrix
- Prioritized improvement roadmap
- Resource requirement analysis
- ### Step 8: Develop Risk Treatment Plans
- **Objective:** Create actionable plans to address identified risks and gaps.
- **Activities:**
- Define risk treatment strategies (avoid, mitigate, transfer, accept)
- Select appropriate controls from Annex A or develop custom controls
- Create implementation timelines and assign responsibilities
- Establish monitoring and review mechanisms
- **Deliverables:**
- Risk treatment plan
- Control selection rationale
- Implementation roadmap
- Responsibility assignment matrix (RACI)
- ### Step 9: Implementation and Monitoring Framework
- **Objective:** Establish ongoing monitoring and measurement of objectives and risks.
- **Activities:**
- Define key performance indicators (KPIs) for each objective
- Establish monitoring and measurement processes
- Create reporting mechanisms and frequency
- Implement continuous improvement processes
- **Deliverables:**
- Monitoring and measurement plan
- KPI dashboard framework
- Reporting templates and schedules
- Continuous improvement procedures
- ### Step 10: Documentation and Review

Objective: Complete comprehensive documentation and establish review cycles.

Activities:

- Compile comprehensive assessment documentation
- Conduct management review of findings and plans
- Establish periodic review and update cycles
- Create communication materials for stakeholders

Deliverables:

- Final assessment report
- Executive summary
- Management review minutes
- Communication plan and materials

Key Deliverables Summary

Primary Assessment Outputs:

- 1. **AI Governance Framework** Comprehensive framework aligned with Annex C objectives
- 2. **Risk Management Plan** Detailed risk treatment and monitoring
 plans
- 3. **Control Implementation Roadmap** Prioritized action plan for control deployment
- 4. **Compliance Documentation** Evidence of systematic AI risk management approach

Supporting Documentation:

- Assessment methodology and procedures
- Stakeholder engagement records
- Risk and impact assessment templates
- Monitoring and reporting frameworks
- Training and awareness materials

Integration with ISO 42001 Requirements

This Annex C assessment process directly supports:

- **Clause 6.1** Actions to address risks and opportunities
- **Clause 6.2** AI objectives and planning
- **Clause 8.2** AI risk assessment
- **Clause 8.4** AI system impact assessment
- **Clause 9.1** Monitoring, measurement, analysis and evaluation

Best Practices

- **Cross-functional Involvement:** Engage technical, legal, ethical, and business stakeholders throughout the process.
- **Iterative Approach:** Treat this as an ongoing process rather than a one-time activity.
- **Documentation Standards:** Maintain comprehensive records to support audit and certification requirements.

Continuous Improvement: Regularly update assessments as AI systems and regulatory landscape evolve. ___ *Note: This process framework is based on the informative guidance provided in ISO 42001 Annex C and should be tailored to your organization's specific context, AI systems, and risk profile.*